

03/01/99

J0645 U.S. PTO

Please type a plus sign (+) inside this box → ☒Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> (Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))	Attorney Docket No.	98-0645.1
	First Inventor or Application Identifier	TONGBI JIANG
	Title	METHOD FOR FABRICATING BGA PACKAGE...
	Express Mail Label No.	EE 697 314 553US

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents.	<b>ADDRESS TO:</b> Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
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<p>1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification [Total Pages <b>24</b>] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R &amp; D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure</p> <p>3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <b>6</b>]</p> <p>4. Oath or Declaration [Total Pages <b>3</b>] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 17 completed) [Note Box 5 below] i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).</p> <p>5. <input checked="" type="checkbox"/> Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p>	<p>6. <input type="checkbox"/> Microfiche Computer Program (Appendix)</p> <p>7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies</p>
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<b>ACCOMPANYING APPLICATION PARTS</b>
8. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))
9. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney
10. <input type="checkbox"/> English Translation Document (if applicable)
11. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations
12. <input checked="" type="checkbox"/> Preliminary Amendment
13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) * Small Entity <input type="checkbox"/> Statement filed in prior application, Status still proper and desired (PTO/SB/09-12)
14. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)
15. <input type="checkbox"/> Other: <b>CHANGE OF ADDRESS FOR CORRESPONDENCE; EXPRESS MAIL CERT.</b>

\* NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

<input type="checkbox"/> Continuation	<input type="checkbox"/> Divisional	<input checked="" type="checkbox"/> Continuation-in-part (CIP)	of prior application No: <b>09, 191,215</b>
Prior application information: Examiner <b>Nadav, O.</b>			Group / Art Unit: <b>2811</b>

<b>18. CORRESPONDENCE ADDRESS</b>				
<input type="checkbox"/> Customer Number or Bar Code Label [ ] or <input checked="" type="checkbox"/> Correspondence address below (Insert Customer No. or Attach bar code label here)				
Name	<b>Stephen A. Gratton</b>			
	<b>THE LAW OFFICE OF STEPHEN A. GRATTON</b>			
Address	<b>2764 South Braun Way</b>			
City	<b>Lakewood</b>	State	<b>CO</b>	Zip Code <b>80228</b>
Country	<b>US</b>	Telephone	<b>303 989 6353</b>	Fax <b>303 989 6538</b>

Name (Print/Type)	<b>Stephen A. Gratton</b>	Registration No. (Attorney/Agent)	<b>28,418</b>
Signature		Date	<b>March 1, 1999</b>

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

**FEE TRANSMITTAL**

Patent fees are subject to annual revision on October 1.  
These are the fees effective October 1, 1997.  
Small Entity payments must be supported by a small entity statement,  
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.  
See 37 C.F.R. §§ 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT (\$ 838.00

**Complete if Known**

Application Number	
Filing Date	March 1, 1999
First Named Inventor	Tongbi Jiang
Examiner Name	O. Nadav
Group / Art Unit	2811
Attorney Docket No.	98-0645.1

J-626 U.S. Pro  
09/25/96

03/01/99

**METHOD OF PAYMENT (check one)**

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 07-1857  
Deposit Account Name \_\_\_\_\_☒ Charge Any Additional Fee Required Under 37 C.F.R. §§ 1.16 and 1.17 ☐ Charge the Issue Fee Set in 37 C.F.R. § 1.18 at the Mailing of the Notice of Allowance

- 2.
- ☒
- Payment Enclosed:
- 
- ☒
- Check
- ☐
- Money Order
- ☐
- Other

**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 790	201 395	Utility filing fee	760
106 330	206 165	Design filing fee	
107 540	207 270	Plant filing fee	
108 790	208 395	Reissue filing fee	
114 150	214 75	Provisional filing fee	
SUBTOTAL (1) (\$)			760

**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
13	-20** = 0	X 18 = 0	
Independent Claims	4 - 3** = 1	X 78 = 78	
Multiple Dependent			

\*\*or number previously paid, if greater; For Reissues, see below

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	
103 22	203 11	Claims in excess of 20	
102 82	202 41	Independent claims in excess of 3	
104 270	204 135	Multiple dependent claim, if not paid	
109 82	209 41	** Reissue independent claims over original patent	
110 22	210 11	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2) (\$)			78

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 400	216 200	Extension for reply within second month	
117 950	217 475	Extension for reply within third month	
118 1,510	218 755	Extension for reply within fourth month	
128 2,060	228 1,030	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,320	241 680	Petition to revive - unintentional	
142 1,320	242 680	Utility issue fee (or reissue)	
143 450	243 225	Design issue fee	
144 670	244 335	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Petitions related to provisional applications	
126 240	126 240	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 790	246 395	Filing a submission after final rejection (37 CFR 1.129(a))	
149 790	249 395	For each additional invention to be examined (37 CFR 1.129(b))	

Other fee (specify) \_\_\_\_\_

Other fee (specify) \_\_\_\_\_

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

**SUBMITTED BY**Typed or Printed Name Stephen A. GrattonSignature [Signature]

Date

3/1/99

**Complete (if applicable)**Reg. Number 28,418

Deposit Account User ID \_\_\_\_\_

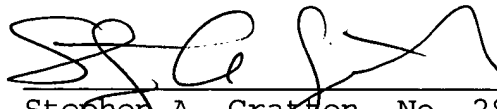
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**EXPRESS MAIL #EE 697 314 553US**  
**Date of Deposit: March 1, 1999**

**CERTIFICATE OF MAILING BY EXPRESS MAIL**  
**UNDER 37 C.F.R. §1.10**

I hereby certify that this divisional application in the names of TONGBI JIANG and EDWARD SCHROCK entitled "METHOD FOR FABRICATING BGA PACKAGE USING SUBSTRATE WITH PATTERNED SOLDER MASK OPEN IN DIE ATTACH AREA" along with a Utility Patent Application Transmittal; a Fee Transmittal; a check in the amount of \$838.00 for the filing fee; a copy of the patent specification (pages 1-24), drawings (6 sheets), a "Declaration and Power of Attorney for Patent Application (Joint Inventors)" in the prior application (Serial No. 09/191,215); a Change of Address for Correspondence; a Preliminary Amendment dated March 1, 1999 (pages 1-2); an Information Disclosure Statement along with copies of the cited references; and a return receipt postcard are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above in an envelope addressed to the Assistant Commissioner of Patents, BOX PATENT APPLICATION, Washington, D.C. 20231.

DATED this 1st day of March, 1999.



Stephen A. Gratton, No. 28,418  
Attorney for Applicants

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Telephone: (303) 989 6353  
Fax: (303) 989 6538

Docket No. 98-0645.1

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

TONGBI JIANG  
EDWARD SCHROCK

Serial No.:

Division of Serial No.  
09/191,215 filed November 12, 1998

Art Unit: 2811

Filing Date: March 1, 1999

Examiner: NADAV, O.

Title: METHOD FOR FABRICATING BGA  
PACKAGE USING SUBSTRATE WITH  
PATTERNED SOLDER MASK OPEN IN  
DIE ATTACH AREA

Attorney Docket No.: 98-0645

**CHANGE OF ADDRESS FOR CORRESPONDENCE**  
**March 1, 1999**

Commissioner of Patents and Trademarks  
BOX PATENT APPLICATION  
Washington, D.C. 20231

Sir:

Please direct all correspondence in connection with the  
above-identified patent application to the following address:

STEPHEN A. GRATTON  
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Respectfully submitted:



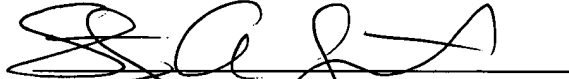
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*Change of  
Address  
#3  
6/15/99  
Bollman*

DATED this 1st day of March, 1999.

Respectfully submitted:



Stephen A. Gratton  
Registration No. 28,418  
Attorney for Applicants

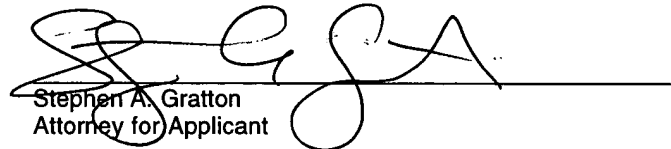
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FAX: (303) 989 6538

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

**Express Mail No. EE 697 314 553US**  
**Date of Deposit: March 1, 1999**

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Address" Service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents, Box Patent Application, Washington, D.C. 20231.

March 1, 1999  
Date of Signature



Stephen A. Gratton  
Attorney for Applicant